

ABSTRACT

A technique for detecting texture sharing between multiple contexts having unique ID's includes obtaining a texture usage mask of a subject texture and a context ID of a subject context. A first logic operation with the texture usage mask of the subject texture and the context ID of the subject context is performed to produce a resultant value. The subject texture is determined not to be shared by another context with the subject context upon the resultant value being equal to a first predetermined value. The subject texture is determined to be shared by another context with the subject context upon the resultant value being equal to a second predetermined value which is different from the first predetermined value. The texture usage mask of a subject texture may be revised prior to the subject texture being used by another context by performing a second logic operation with the texture usage mask and a context ID of another context to produce a resultant new texture usage mask for the subject texture. The texture usage mask of a subject texture may be revised upon the subject texture no longer being used by a particular context by performing a third logic operation with the texture usage mask and a context ID of the particular context to produce a resultant new texture usage mask for the subject texture.